

Quantitative Usage Analysis for Phosmet
Case Number: 242 PC Code: 059201
Date: June 8, 1999 Analyst: Jihad Alsadek

Based on available pesticide survey usage information for the years of 1988 through 1997, an annual estimate of phosmet's total domestic usage averaged approximately one million pounds active ingredient (a.i.) for 402,000 acres treated. Most of the acreage is treated with 3 pounds a.i. or less per application and 5 pounds a.i. per year. Phosmet is a broad spectrum insecticide (acaricide) with its largest markets in terms of total pounds active ingredient allocated to apples(42%), peaches(11%), walnuts (7%), almonds (6%), pears (5%), and alfalfa (4%). The remaining usage is primarily on cherries, pecans, potatoes, grapes, cattle & swine, and canine (dog). Crops with a high percentage of the total U.S. planted acres treated include apples (23%), apricots (21%), blueberries & pears (20%), cherries (15%), kiwifruit & nectarines (14%), peaches & dry peas (13%), while registered sites with only a small percentage of the site treated are alfalfa, cotton, woodland, canine , and cattle and swine. Most of the usage is in CA, MS, LA, WA, AND ID.

Phosmet Case #: 242 AI #: 59201 EPA's QUANTITATIVE USAGE ANALYSIS Analyst: Jihad Alsadek June 7, 1999

Site	Acres (000) Grown	Acres Treated (000)		% Crop Treated		Lb AI Applied (000)		Average Application Rates			States of Most Usage (% of total lb ai used on this site)
		Weighted Average	Est Max	Weighted Average	Est Max	Weighted Average	Est Max	lb ai/ acre/yr	# appl /year	lb ai/A /appl	
Blueberries	59	12	18	20%	30%	19	30	1.6	1.6	1.0	MI NJ 90%
Apples	523	120	193	23%	37%	420	894	3.5	2.8	1.3	MI NY OH CA IN WA 51%
Apricots	19	4	5	21%	28%	10	18	2.4	1.0	2.4	CA 99%
Cherries	109	17	28	15%	26%	35	78	2.1	1.7	1.2	MI NY WI OR 85%
Kiwifruit	7	1	2	14%	28%	1	2	1.0	1.0	1.0	-
Nectarines	37	5	10	14%	27%	13	24	2.0	1.2	1.7	-
Peaches	265	35	62	13%	23%	110	201	3.1	2.0	1.6	CA AL GA TX SC CT 57%
Pears	75	15	25	20%	33%	54	103	3.6	1.8	2.0	OR CA WA 83%
Plums & Prunes	140	5	10	4%	7%	15	25	2.9	1.5	2.0	CA MI OH 85%
Grapes	830	13	41	2%	5%	21	57	1.6	1.8	0.9	CA 81%
Almonds	435	19	40	4%	9%	61	129	3.1	1.1	2.8	CA 100%
Pecans	470	16	47	3%	10%	30	132	1.9	1.6	1.2	GA OK 81%
Walnuts	204	19	51	9%	25%	87	231	4.5	1.5	3.1	CA 100%
Potatoes	1,433	20	56	1%	4%	28	84	1.4	1.5	0.9	MI ME NY PA OR VA 83%
Sweet Potatoes	84	3	6	4%	7%	14	29	4.8	4.8	1.0	MS LA 100%
Peas, Dry	166	22	44	13%	27%	12	24	0.5	1.0	0.5	WA ID 94%
Peas, Green	321	9	18	3%	6%	7	13	0.7	1.0	0.7	OR WA 86%

Alfalfa	23,701	53	129	0.2%	0.5%	37	94	0.7	1.0	0.7	CA OR WY NM MO 81%
Cotton	12,780	5	24	0.04%	0.18%	2	10	0.4	1.1	0.4	TX MS 85%
Other Crops	-	5	10	-	-	5	11	1.1	1.0	1.1	CA PA ME MA 81%
Woodland	62,089	4	12	0.01%	0.02%	0	1	-	1.0	-	MD 88%
Canine (Dog)	-	-	-	-	-	10	11	-	-	-	-
Cattle & Swine	-	-	-	-	-	19	21	-	-	-	-
Beef Cattle	-	-	-	0.11	0.22	-	-	-	-	-	-
Dairy Herd	-	-	-	0.28	0.56	-	-	-	-	-	-
Total		402	616			1,008	1,614				

COLUMN HEADINGS

Weighted average--the most recent years and more reliable data are weighted more heavily.

Est Max = Estimated maximum, which is estimated from available data.

Average application rates are calculated from the weighted averages.

NOTES ON TABLE DATA

Usage data primarily covers 1988 - 1997.

A small amount of usage was reported in the earlier years of this period for citrus, corn , and tomatoes.

A dash (-) indicates that usage/information on this site is NOT available in EPA or Proprietary Data sources or is insufficient.

Other Crops include ornamentals, popcorn, rapeseed/canola, and safflower.

SOURCES: EPA data (1988-97), USDA/NASS (1990-97), and National Center for Food and Agricultural Policy (1992), CA (1993-95), Maritz (1996, partial), Kline (1990-96, professional and consumer markets) , SRI (1994), and Wellmark International (1998), and Unicorn Laboratories (1999), The Market for Cattle Insecticides Final Repot (1995).